

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|---|------------------|---------|------------------|
| S1 | 100 | ("20060041564" "6804684" "20020188602" "7028253" "7068309" "20040064455" "20040070678" "20040098362" "20050190273" "20060107297" "5579471" "5751286" "6208353" "20020055955" "20040126038" "20050234958" "5564005" "5592607" "6611725" "20040165775" "4956667" "5299021" "6731788" "6901411" "20030187844" "20050165763" "6973460" "20040223747" "20040260702" "20040268253" "20050125387" "20050216454" "20050216457" "20050234891" "20050256866" "20050256867" "20050289142" "20060053364" "20060053365" "20060123017" "20060123332" "4942428" "5872923" "4616336" "5060135" "5231578" "5355447" "5457476" "5528732" "5559942" "5577188" "5581682" "5625377" "5689742" "5704042" "5781727" "5832474" "5838914" "5845161" "5896468" "5897228" "5920317" "5920694" "5963670" "6035142" "6041335" "6076917" "6079832" "6128446" "6269366" "6397213" "6463426" "6480186" "6499016" "6502100" "6512857" "6519050" "6587601" "6597818" "6599241" "6665490" "6810146" "6891920" "6909805" "6978230" "7010751" "7065705" "20010038718" "20020054059" "20020102022" "20020171669" "20030059112" "20030190145" "20040165768" "20040246270" "20040260558" "20050001851" "20050102609" "20050116964" "20050257137").pn. | US-PGPUB; USPAT | OR | OFF | 2006/08/08 16:25 |
| S2 | 1 | 10/711061 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/08 14:14 |

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|-----|-------|--|---|----|----|------------------|
| S3 | 5 | "7054861" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/08 14:15 |
| S4 | 5889 | (tag or metadata or (meta adj data) or schema or ontology) near2 (image or picture) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/09 12:41 |
| S5 | 6706 | (categor\$4 or classify\$3) near2 (image or picture) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/08 17:09 |
| S6 | 102 | S5 same S4 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/08 14:22 |
| S7 | 57637 | annotat\$3 or markup | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/08 14:23 |
| S8 | 162 | S4 with S7 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/08 14:24 |
| S9 | 16 | S5 with S7 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/08 14:23 |
| S10 | 10 | US-6342906-\$.DID. OR US-5920694-\$.DID. OR US-5819038-\$.DID. OR US-5761419-\$.DID. OR US-5600775-\$.DID. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/08 15:43 |
| S11 | 15714 | annotation | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/08 16:03 |
| S12 | 26 | S5 same S11 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/08 15:43 |

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|-----|-------|--|---|----|----|------------------|
| S13 | 37 | annotation adj layer | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/08 15:50 |
| S14 | 508 | image adj annotation | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/08 16:03 |
| S15 | 12 | (tag or metadata or (meta adj data) or schema or ontology) with S14 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/08 16:05 |
| S16 | 22 | (tag or metadata or (meta adj data) or schema or ontology) same S14 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/08 16:06 |
| S17 | 7 | 09/685,112 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/08 16:07 |
| S18 | 120 | metadata same geometr\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/08 16:07 |
| S20 | 4 | S5 and S18 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/08 16:08 |
| S21 | 73210 | (feature or characteristic or metadata or annotation) near2 (image or picture) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/08 16:09 |
| S22 | 1035 | (categor\$4 or classify\$3) with S21 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/08 16:10 |
| S23 | 44 | S22 and (707/100 or 707/102 or 707/3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/09 11:45 |

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|-----|------|--|---|----|-----|------------------|
| S24 | 1 | ("2002/0054059").URPN. | USPAT | OR | OFF | 2006/08/08 16:37 |
| S25 | 13 | ("5838914").URPN. | USPAT | OR | OFF | 2006/08/08 16:48 |
| S26 | 1947 | S7 near2 (image or picture) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/08 17:09 |
| S27 | 56 | S26 with (level or layer) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/08 17:17 |
| S28 | 162 | S26 same (level or layer) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/08 17:17 |
| S29 | 106 | S28 not S27 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/09 10:04 |
| S30 | 37 | ("5920694").URPN. | USPAT | OR | OFF | 2006/08/08 17:24 |
| S31 | 71 | ("5600775").URPN. | USPAT | OR | OFF | 2006/08/08 17:25 |
| S32 | 1 | ("6269366").URPN. | USPAT | OR | OFF | 2006/08/09 10:00 |
| S33 | 1 | 10/712568 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/09 10:04 |
| S34 | 13 | ("6574629").URPN. | USPAT | OR | OFF | 2006/08/09 11:38 |
| S35 | 508 | image adj annotation | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/09 11:46 |
| S36 | 30 | S35 and (707/100 or 707/102 or 707/3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/09 11:48 |
| S37 | 1991 | (draw\$3 or defin\$3) near2 (annotation or markup or (mark-up) or (mark adj up)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/09 11:48 |

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| S38 | 189 | S37 with (image or picture) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/09 11:49 |
| S39 | 14 | S38 and (707/100 or 707/102 or 707/3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/09 11:48 |
| S40 | 369 | (draw\$3) near2 (annotation or markup or (mark-up) or (mark adj up)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/09 11:48 |
| S41 | 79 | S40 with (image or picture) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/09 11:53 |
| S42 | 107 | S38 not S40 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/09 11:53 |
| S43 | 198 | gertz.in. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/09 12:42 |
| S44 | 0 | gertz.in. and sattler.in. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/09 12:42 |
| S45 | 0 | gertz.in. and gorin.in. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/09 12:42 |
| S46 | 0 | gertz.in. and hogarth.in. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/09 12:42 |
| S47 | 19 | S43 and image | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/08/09 12:42 |


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|-----|----------|--|------------------|---------|-----------------------------|
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| 2 | INZZ | image NEAR annotat\$3 | unrestricted | 234 | show titles |
| 3 | INZZ | image NEAR annotat\$3 AND database | unrestricted | 63 | show titles |
| 4 | INZZ | (draw\$3 OR defin\$3) NEAR (annotation OR markup) | unrestricted | 131 | show titles |
| 5 | INZZ | (draw\$3 OR defin\$3) NEAR (annotation OR markup) AND database | unrestricted | 21 | show titles |
| 6 | INZZ | (tag OR metadata) AND annotat\$3 WITH (image OR picture) | unrestricted | 16 | show titles |

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Proceedings of 14th International Conference on Scientific and Statistical Database Management, Edinburgh, UK, 24-26 July 2002.

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Proceedings 14th International Conference on Scientific and Statistical Database Management, 2002, p. 59-68, 25 refs, pp. viii +243, ISBN: 0-7695-1632-7.

Publisher: IEEE Comput. Soc, Piscataway, NJ, USA.

Author(s)[Gertz-M](#), [Sattler-K-U](#), [Gorin-F](#), [Hogarth-M](#), [Stone-J](#).**Author affiliation**


Gertz, M., Sattler, K.-U., Dept. of Comput. Sci., California Univ., Davis, CA, USA.

Abstract


Data annotations are an important kind of **metadata** that occur in the form of externally assigned descriptions of particular features in Web accessible documents. Such **metadata** are eventually used in data retrieval tasks on heterogeneous, possibly distributed Web-accessible documents. In this paper, we present the model and realization of an **annotation** framework that scientists can employ to semantically enrich different types of documents, primarily scientific images made available through an **image** repository. Although we employ ontology like structures, called concepts, for **metadata** schemes used in annotations, our primary focus is on how concepts are actually used to **annotate** images and regions of interest, respectively, that exhibit features of interest to a researcher. It turns out that the combined consideration of domain specific concepts and **annotated** regions in images provides interesting means to analyze the usage of **metadata** regarding certain correctness and plausibility criteria. We detail our **annotation** management framework in the context of the Human Brain Project in which Neuroscientists record their observations on specific brain structures, and share and exchange information through concept-based annotations associated with images.


Descriptors[E. BRAIN](#); [E. FEATURE-EXTRACTION](#); [E. IMAGE-RETRIEVAL](#); [E. INTERNET](#); [E. MEDICAL-IMAGE-PROCESSING](#); [E. META-DATA](#); [E. NEUROPHYSIOLOGY](#); [E. VISUAL-DATABASES](#).**Classification codes**C7330 [Biology-and-medical-computing*](#);

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Annotating scientific images: a concept-based approach

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Abstract

Data annotations are an important kind of metadata that occur in the form of externally assigned descriptions of particular features in Web accessible documents. Such metadata are eventually used in heterogeneous, possibly distributed Web-accessible documents. In this paper, we present a realization of an annotation framework that scientists can employ to semantically enrich documents, primarily scientific images made available through an image repository. Although we use ontology like structures, called concepts, for metadata schemes used in annotations, our focus is on how concepts are actually used to annotate images and regions of interest, respectively, to a researcher. It turns out that the combined consideration of domain specific annotated regions in images provides interesting means to analyze the usage of metadata correctness and plausibility criteria. We detail our annotation management framework in the context of the Human Brain Project in which Neuroscientists record their observations on specific brain structures and exchange information through concept-based annotations associated with images.

Index Terms

Indexing

Controlled Indexing

[Internet](#) [brain](#) [feature extraction](#) [image retrieval](#) [medical image processing](#) [neurophysiology](#) [visual databases](#)

Non-controlled Indexing

[Human Brain Project](#) [Web accessible documents](#) [brain structures](#) [concept-based approach](#) [correctness criteria](#) [data retrieval tasks](#) [distributed Web-accessible documents](#) [externally assigned descriptions](#) [heterogeneous Web-accessible documents](#) [image repository](#) [metadata](#) [ontology like structures](#) [plausibility criteria](#) [regions of interest](#) [scientific image annotations](#)

Author Keywords

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References

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